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Title: WO03075377A3: CATHODE FOR USE AT HIGH TEMPERATURES[Ge

Derwent Title: High temperature fuel cell cathode has specified conductivity and includes perovskite and other layers [\[Derwent Record\]](#)

Country: WO World Intellectual Property Organization (WIPO)

Kind: A3 Subsequent Publ. of the Int. search report i (See also: WO03075377A2)

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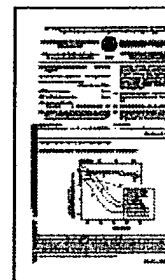
Abstract: Disclosed is a cathode for use at high temperatures, which consists of an oxidic material that has an electric conductivity of more than 10 S at 700 to 1000 °C and is provided with a K₂NiF₄ layer structure, in which at least one perovskite layer borders another layer that does not have a perovskite structure. Said layer structure has the advantageous effect of providing said material with sufficient electric conductivity and a good electrocatalytic activity already at temperatures below 800 °C as opposed to previously known oxides. The oxidic material also has the advantage of showing good thermodynamic stability and an adequate thermal expansion behavior towards electrolytes that are used in said temperature range. Said oxidic material is therefore particularly suitable for the production of cathodes in a high-temperature fuel cell. [\[German\]](#) [\[French\]](#)

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Designated: AU CA JP NO US, **European patent:** AT BE BG CH CY CZ DE DK



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Buy PDF	Publication	Pub. Date	Filed	Title
	WO03075377A3	2003-09-12	2003-02-06	CATHODE FOR USE AT HIGH TEMPE
	WO03075377A2	2003-09-12	2003-02-06	CATHODE FOR USE AT HIGH TEMPE
	DE10208882A1	2003-09-18	2002-03-01	Kathode f r den Einsatz bei hohen Temp
3 family members shown above				

Other Abstract
Info:

None

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